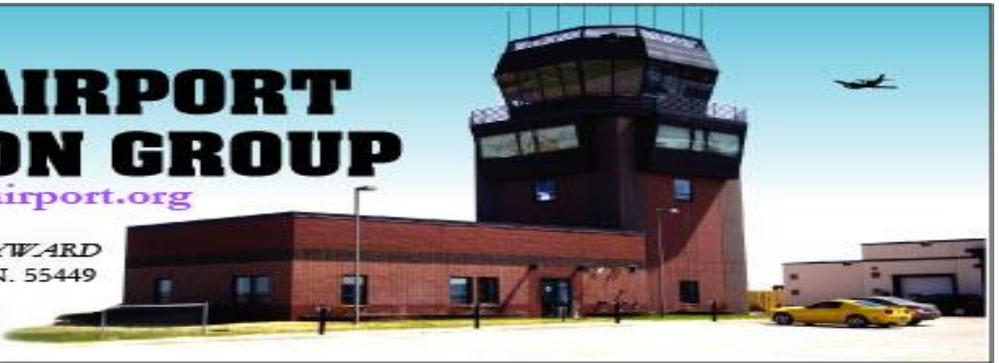


# BLAINE AIRPORT PROMOTION GROUP

[www.aneairport.org](http://www.aneairport.org)

TAKING YOUR AMBITIONS SKYWARD  
8891 Airport Road C-2, Blaine MN. 55449



## THE EDUCATION COORDINATOR • JANUARY 9, 2013

### AIRSPACE AND AIR TRAFFIC CONTROL



The United States is divided into airspace zones that help air traffic controllers coordinate the movement of the 50,000 aircraft that operate in our National airspace every

day. The air traffic controllers keep the aircraft at safe distances from each other, assist pilots in safe takeoff and landings, direct pilots regarding weather, and maintain the smooth flow of traffic to minimize delays throughout the system. The Upper Midwest airspace zone (ZMP) centered at Minneapolis includes Minnesota, North and South Dakota, Eastern half of Nebraska, Northeastern Kansas, Northeastern Iowa, Wisconsin and Northern Michigan. Airspace zones (Centers) are divided into small sectors of airspace of about 50 miles in diameter called TRACON (Terminal Radar Approach Control) airspace. TRACON can have a number of airports within its airspace and each airport has its own airspace of a 5 mile radius.

**Air Traffic Control Systems Command Center (ATCSCC)** oversees all air traffic control and provides assistance to Centers where there are problems with bad weather conditions, traffic overload, and re-routing when runways are inoperable. Center controllers have communication links with other Centers and TRACON systems and are linked with the National Airspace System allowing for nationwide coordination of traffic flow and radar data acquisition.

**Air route traffic control centers (ARTCC)** are located in each Center and manages the traffic within all of the small sectors of airspace within its management center except the TRACON airspace and local airport airspace. A sector may cover a geographic area of 500 square miles and a range from the ground to 23,000 feet, and a second sector of coverage over the same geographic area covering altitudes from 23,000 to 37,000 feet. Usually an aircraft will have a destination that is in the jurisdiction of another air route traffic control center (ARTCC).



**Terminal radar approach control (TRACON)** manages departing and approaching aircraft within its 50 mile radius airspace. An aircraft is handed off as it approaches an adjacent traffic control center to continue onto its destination. When the aircraft arrives at its TRACON destination, ARTCC hands-off the flight to TRACON.



**Air traffic control tower (ATCT)** are located at airports with regularly scheduled flights and manage takeoff, landings, and ground traffic. TRACON hands-off the flight to ATCT to guide the flight to its final landing and ground transfers at its designated flight destination.



**Flight service stations (FSS)** provide pilots with information on weather, route, terrain, and flight plan as well as emergencies and coordination of search and rescue. Each week FSS (air traffic control specialists) help provide services to over 80,000 members of the general aviation community that include corporate and private aircraft as well as some military and airlines. FSS services may include preflight and inflight briefings and communications, search and rescue, emergency services, meteorology and aeronautical briefings, weather observation, airport advisory service, continuous automated broadcast of hazardous weather advisories, and even support of air shows, aviation events and conventions.

**Pilot in command (PIC)** is the person on board an aircraft who has responsibility for the safe operation during the flight. The pilot is directly responsible and is the final authority as to the operation of the aircraft. In an in-flight emergency requiring immediate action, the pilot may react to the emergency and deviate from the governing rules of the air to meet the emergency. The pilot in command has the final authority as to the disposition of the aircraft while in command.



# Discover Aviation Days

May 31st & June 1st, 2014

## VOLUNTEERS NEEDED

The DAD planning team is looking for more volunteers and team leaders. If you are interested in helping plan this exciting event, please contact us for future meeting planning dates.

(763) 568-6072 [Info@DiscoverAviationDays.org](mailto:Info@DiscoverAviationDays.org)

## EVENTS NEWS

Planning for the New Year 2014 tours and events have been in progress and features several events that are planned for January through April.

The Blaine Airport Promotion Group completed the 2013 year with a series of school programs that included school districts from North St. Paul, Edina, and Anoka-Hennepin area schools as well as civic groups from Rochester and St. Cloud. The events included complete tours of the airfield as well as aerospace related tours that introduced 1100 individuals to our airport during 2013. Air shows drew an additional spectator attendance of upwards of 20,000 to both "Discover Aviation Days" and The Collings Foundation "Wings of Freedom Tour".

**January 9, 2014 Columbia Heights Aviation Class. Field trip and Museum tour.**

**January 2014 Planning dates to be set for Blaine High School tour and Aviation activity.**

**February 27, 2014 University Avenue Aerospace School.**

**March 6, 2014 University Avenue Aerospace School. Special guest Virginia May Hope performance, actor with Minnesota Historical Society and Host, Maggie Snow, Director of Youth Services, Anoka County Library will present a 45 minute performance during a museum tour.**

**March 7, 2014 University Avenue Aerospace School will host a University Magnet Celebration Day at the school, 9901 University Avenue NE, Blaine MN.**

**March 2014 Planning dates to be set for this event. University Avenue Aerospace School.**

**March 21 & 22, 2014 MN Pilots Association Expo-held at Golden Wings Flying Museum. <http://www.mnpilots.org>**

**April 11, 2014 AOPA-a meet and greet, an evening event. <http://www.mnaviationhalloffame.org/award.html>**

**April 2014 Planning dates to be set for this event. University Avenue Aerospace School.**

**April 25, 2014 Founding Flyers Celebration-Air Space MN. A fund raising event at Golden Wings Flying Museum. <http://www.airspacemn.org/>**



Abundant Life Church of Blaine, Minnesota hosts a youth program called Royal Rangers (similar to Boy Scouts). One of their merit programs include Aviation, building on physics of airplane flight that was part of their discussions prior to a tour on December 11, 2013 at the Golden Wings Flying Museum located at the Blaine airport.



The leadership of the program took an active part in preparing for their visit and then, instructed the students during the tour at teaching stations featuring the Bernoulli Principle, air flow effects on wing design, and pilots view from inside an airplane.



Historian, Tom Lymburn was on hand to teach airplane parts and controlled surfaces of the wing. Roger Hansen and Harvey Karth directed the tour through the vast array of vintage aircraft in the collection.

The feedback from the leaders and students was very positive, with "Awesome" being a frequently used description. The highlight was the plane that can be turned into a car and a chance to sit at the controls of an actual airplane.



BlairGeorge  
Abundant Life Church

Photos by: Roger Hansen